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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,293	10/05/2007	Matthew Gaved	025538-00085	2918
4372 7590 06/02/2009 ARENT FOX LLP		EXAMINER		
1050 CONNECTICUT AVENUE, N.W. SUITE 400 WASHINGTON, DC 20036			HO, ALLEN C	
			ART UNIT	PAPER NUMBER
			2882	
			NOTIFICATION DATE	DELIVERY MODE
			06/02/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/582,293	GAVED ET AL.			
Office Action Summary	Examiner	Art Unit			
	Allen C. Ho	2882			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 12 Ju This action is FINAL . 2b) ☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 25-39 is/are pending in the application 4a) Of the above claim(s) is/are withdrav 5) Claim(s) is/are allowed. 6) Claim(s) 25-39 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on 12 June 2006 is/are: a)	vn from consideration. r election requirement. r.	by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 20060612.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 12 June 2006 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Claim Objections

2. Claim 25 is objected to because of the following informalities:

Lines 2-4 fail to positively set forth method steps.

Appropriate correction is required.

3. Claim 37 is objected to because of the following informalities:

Line 1, "305" should be replaced by --35--.

Appropriate correction is required.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

5. Claims 25-39 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

A method claim must meet a specialized, limited meaning to qualify as a patent-eligible process claim. As clarified in *Bilski*, the test for a method claim is whether the claimed method is (1) tied to a particular machine or apparatus, or (2) transforms a particular article to a different state or thing. This is called "machine-or-transformation test". There are two corollaries to the machine-or-transformation test. First, a mere field-of-use limitation is generally insufficient to render an otherwise ineligible method claim patent-eligible. This means the machine or transformation must impose meaningful limits on the method claim's scope to pass the test. Second, insignificant extra-solution activity will not transform an unpatentable principle into a patentable process. This means reciting a specific machine or a particular transformation of a specific article in an insignificant step, such as data gathering or outputting, is not sufficient to pass the test.

In the present case, the claims do not tie the process to a machine, instead reciting a series of steps that may be purely mental, and which provide only data reduction and data analysis rather than a transformation of a particular article to a different state or thing.

Claim Rejections - 35 USC § 112

- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claim 38 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 38 recites "for which the or each at least one characteristic to be determined by the model is already known". The meaning of this recitation is unclear.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 9. Claims 25, 28, 31, 32, and 35 are rejected under 35 U.S.C. 102(b) as being anticipated by Heismann *et al.* (WO 03/024331 A2). See Heismann *et al.* (U. S. Patent No. 7,158,611 B2) for English translation.

With respect to claim 25, Heismann *et al.* disclosed a method for characterizing body tissue, the method comprises: obtaining at least two components of data, wherein the at least two components of data comprising a first measured tissue property of a body tissue sample (at a first x-ray spectrum) and a second different measured tissue property of the tissue sample (at a second x-ray spectrum); using the respective data in combination as inputs to a predefined calibration model that relates the combined data to at least one tissue characteristic (density and atomic number) to provide a characterization of the tissue sample (page 12, line 20 - page 17, line 12,

which corresponding to column 7, line 23 - column 10, line 56 in U. S. Patent No. 7,158,611 B2).

With respect to claim 28, Heismann *et al.* disclosed a method according to claim 25, wherein the characterization comprises tissue typing (page 18, lines 24-33 corresponding to column 10, lines 35-44).

With respect to claim 31, Heismann *et al.* disclosed a method according to claim 25, wherein techniques used to obtain the tissue property data include the measurement of linear attenuation (transmission) coefficients.

With respect to claim 32, Heismann *et al.* disclosed a method according to claim 25, wherein the measured tissues properties include the composition of the tissue sample (density and atomic number).

With respect to claim 35, Heismann *et al.* disclosed a method for creating a tool for the characterization of body tissue, the method comprises: creating a calibration model that relates data representing at least two measurable tissue properties to at least one tissue characteristic (page 12, line 20 - page 17, line 12, which corresponding to column 7, line 23 - column 10, line 56 in U. S. Patent No. 7,158,611 B2).

Conclusion

- 10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
 - (1) Adriaansz (U. S. Patent No. 6,574,302 B2) disclosed a method and system for determining a density of a volume in an image data set.

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(2) Chao (U. S. Patent No. 6,173,034 B1) disclosed a method for improved breast x-

ray imaging.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Allen C. Ho whose telephone number is (571) 272-2491. The

examiner can normally be reached on Monday - Friday from 9:00 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Edward J. Glick can be reached on (571) 272-2490. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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/Allen C. Ho/ Primary Examiner

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26 May 2009